



PATENT  
ATTORNEY DOCKET NO.: INVIT1140-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Applicants: Fernandez et al.  
Application No.: 10/003,021  
Filed: November 14, 2001  
Title: LIBRARIES OF EXPRESSIBLE GENE SEQUENCES

Art Unit: 1652  
Examiner: Unassigned

OCT 24 2002  
TECH CENTER 1600/2900

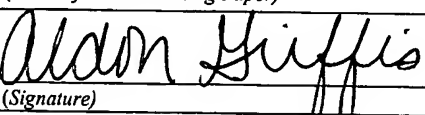
Commissioner for Patents  
Washington, DC 20231

TRANSMITTAL SHEET

Sir:

Transmitted herewith for the above-identified application please find:

1. Information Disclosure Statement (2 pages);
2. Form PTO-1449 (5 pages);
3. Three (3) U.S. Patents;
4. Two (2) Foreign Patents;
5. Forty (40) Other Documents;
6. Return Receipt Postcard.

CERTIFICATION UNDER 37 CFR §1.8	
I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, October 18, 2002, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.	
Aldon Griffis (Name of Person Mailing Paper)	
 (Signature)	October 18, 2002 (Date)

In re Application of:  
Fernandez et al.  
Application No.: 10/003,021  
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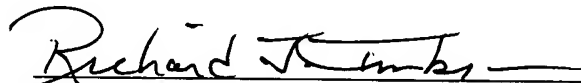


PATENT  
Attorney Docket No.: INVIT1140-3

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: October 18, 2002

  
Richard J. Imbra  
Registration No. 37,643  
Telephone: (858) 677-1496  
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**USPTO CUSTOMER NUMBER 28213**

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4365 Executive Drive, Suite 1100  
San Diego, CA 92121-2133



PATENT  
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#9/flu  
01-16-03

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Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37. C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and copies are enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

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Aldon Griffis (Name of Person Mailing Paper)	
Aldon Griffis (Signature)	October 18, 2002 (Date)

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Respectfully submitted,

Date: October 18, 2002

A handwritten signature in cursive script, reading "Richard J. Imbra".

Richard J. Imbra

Registration No. 37,643

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<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	Docket No. INVIT1140-3	Serial No.: 10/003,021	<b>RECEIVED</b> OCT 24 2002
	Applicant(s): Fernandez et al.		TECH CENTER 1600/2900
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Filing Date: November 14, 2001	Group Art Unit: 1652	

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	4,816,567	03/28/89	Cabilly et al.	530	387	04/08/83
	AB	5,283,173	02/01/94	Fields et al.	435	6	01/24/90
	AC	6,340,595 B1	01/22/02	Vogels et al.	435	457	07/21/99

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
	AD	0 404 097 A2	06/20/90	Europe	C07K	15/28	NO
	AE	WO 93/11161	06/10/93	PCT	C07K	15/28	NO

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AF	Benoist and Chambon, "In vivo Sequence Requirements of the SV40 Early Promoter Region," <i>Nature</i> , 290:304-310, Macmillan Journals Ltd. (1981).
	AG	Botstein et al., "Making Mutations <i>In Vitro</i> and Putting Them Back into Yeast," <i>Miami Winter Symposia</i> , 19:265-274, Academic Press, Inc. (1982).
	AH	Broach, "The Yeast Plasmid 2 $\mu$ Circle," <i>Cell</i> , 28:203-204, MIT (1982).
	AI	Centatiempo, "Prokaryotic Gene Expression <i>in vitro</i> : Transcription - Translation Coupled System," <i>Biochimie</i> , 68:505-515, Société de Chimie biologique, Elsevier (1986).
	AJ	Chong et al., "Single-Column Purification of Free Recombinant Proteins Using a Self-Cleavable Affinity Tag Derived from a Protein Splicing Element," <i>Gene</i> , 192:271-281, Elsevier Science B.V. (1997).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Docket No.  
INVIT1140-3Serial No.:  
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BY APPLICANTFiling Date:  
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Group Art Unit: 1652

AK	Clackson et al., "Making Antibody Fragments Using Phage Display Libraries," <i>Nature</i> , 352:624-628 (1991).
AL	Daniels and Lane, "Phage Peptide Libraries," <i>Methods: A Companion to Methods in Enzymology</i> , 9:494-507, Academic Press, Inc. (1996).
AM	Gilman et al., "Isolation of Sigma-28-Specific Promoters from <i>Bacillus subtilis</i> DNA," <i>Gene</i> , 32:11-20, Elsevier Science Publishers (1984).
AN	Gottesman, "Bacterial Regulation: Global Regulatory Networks," <i>Ann. Rev. Genet.</i> , 18:415-441 (1984).
AO	Hallet and Sherratt, "Transposition and Site-Specific Recombination: Adapting DNA Cut-and-Paste Mechanisms to a Variety of Genetic Rearrangements," <i>FEMS Microbiology Reviews</i> , 21:157-178, Elsevier Science B.V. (1997).
AP	Hamer and Walling, "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>Journal of Molecular and Applied Genetics</i> , 1:273-288, Raven Press (1982).
AQ	Hiraga et al., "Cloning and Characterization of the Elongation Factor EF-1 $\beta$ Homologue of <i>Saccharomyces cerevisiae</i> ," <i>FEBS</i> 316 (2):165-169, Elsevier Science Publishers B.V. (1993).
AR	Holliger et al., "Diabodies: Small Bivalent and Bispecific Antibody Fragments," <i>Proc. Natl. Acad. Sci.</i> , 90:6444-6448 (1993).
AS	Iba and Kurosawa, "Comparison of Strategies for the Construction of Libraries of Artificial Antibodies," <i>Immunology and Cell Biology</i> , 75:217-221 (1997).
AT	Jasney, "Insect Viruses Invade Biotechnology," <i>Science</i> , 79:1653 (1987).
AU	John, Jr. and Twitty, "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Reviews of Infectious Diseases</i> , 8:693-704, The University of Chicago (1986).
AV	Johnston and Hopper, "Isolation of the Yeast Regulatory Gene GAL4 and Analysis of its Dosage Effects on the Galactose/Melibiose Regulon," <i>Proc. Natl. Acad. Sci.</i> , 79:6971-6975 (1982).

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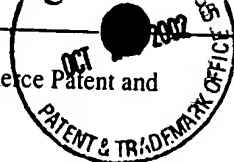
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<b>INFORMATION DISCLOSURE STATEMENT          BY APPLICANT</b>	Filing Date: November 14, 2001	Group Art Unit: 1652

	<b>AW</b>	Jones et al., "Replacing the Complementarity-Etermining Regions in a Human Antibody with Those from a Mouse," <i>Nature</i> , 321:522-525 (1986).
	<b>AX</b>	Kendall and Cohen, "Plasmid Transfer in <i>Streptomyces lividans</i> : Identification of a <i>kil-kor</i> System Associated with the Transfer Region of pIJ101," <i>Journal of Bacteriology</i> , 169(9):4177-4183, American Society for Microbiology (1987).
	<b>AY</b>	Köhler and Milstein, "Continuous Cultures of Fused Cells Secreting Antibody of Predefined Specificity," <i>Nature</i> , 256:495-497 (1975).
	<b>AZ</b>	Marks et al., "By-Passing Immunization: Human Antibodies from V-Gene Libraries Displayed on Phage," <i>J. Mol. Biol.</i> , 222:581-597, Academic Press Limited (1991).
	<b>BA</b>	McKnight, "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> , 31:355-365, MIT (1982).
	<b>BB</b>	Morrison et al., "Chimeric Human Antibody Molecules: Mouse Antigen-Binding Domains with Human Constant Region Domains," <i>Proc. Natl. Acad. Sci.</i> , 81:6851-6855 (1984).
	<b>BC</b>	National Center for Biotechnology Information (NCBI), " <i>Saccharomyces cerevisiae</i> Chromosome I Centromere and Right Arm Sequence," No. L22015, Entire Record, Database GenBank, U.S. National Library of Medicine, Bethesda, MD (March 5, 1998).
	<b>BD</b>	National Center for Biotechnology Information (NCBI), " <i>Saccharomyces cerevisiae</i> Chromosome I Left Arm Sequence," No. L05146, Entire Record, Database GenBank, U.S. National Library of Medicine, Bethesda, MD (March 5, 1998).
	<b>BE</b>	Nunes-Düby et al., " $\lambda$ Integrase Cleaves DNA <i>in cis</i> ," <i>EMBO Journal</i> , 13(18):4421-4430, Oxford University Press (1994).
	<b>BF</b>	Ono et al., Cloning and Characterization of the CYS3 (CYI1) Gene of <i>Saccharomyces cerevisiae</i> ," <i>J. Bacteriology</i> 174 (10): 3339-3347, American Society for Microbiology (1992).
	<b>BG</b>	Pan et al., "Ligation of Synthetic Activated DNA Substrates by Site-Specific Recombinases and Topoisomerase I," <i>Journal of Biological Chemistry</i> , 268(5):3683-3689, The American Society for Biochemistry and Molecular Biology, Inc. (1993).
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	<b>BH</b>	Presta, "Antibody Engineering," <i>Current Opinion in Structural Biology</i> , 2:593-596 (1992).
	<b>BI</b>	Rader and Barbas III, "Phage Display of Combinatorial Antibody Libraries," <i>Current Opinion in Biotechnology</i> , 8:503-508 (1997).
	<b>BJ</b>	Riechmann and Weill, "Phage Display and Selection of a Site-Directed Randomized Single-Chain Antibody Fv Fragment for Its Affinity Improvement," <i>Biochemistry</i> , 32:8848-8855 (1993).
	<b>BK</b>	Riechmann et al., "Reshaping Human Antibodies for Therapy," <i>Nature</i> , 332:323-329 (1988).
	<b>BL</b>	Ringrose et al., "The Kw Recombinase, an Integrase from <i>Kluyveromyces waltii</i> ," <i>Eur. J. Biochem.</i> , 248:903-912, FEBS (1997).
	<b>BM</b>	Rubin, " <i>Drosophila melanogaster</i> as an Experimental Organism," <i>Science</i> , 240:1453-1459 (1988).
	<b>BN</b>	Silver et al., "Amino terminus of the Yeast GAL4 Gene Product is Sufficient for Nuclear Localization," <i>Proc. Natl. Acad. Sci.</i> , 81:5951-5955 (1984).
	<b>BO</b>	Ulmanen et al., "Transcription and Translation of Foreign Genes in <i>Bacillus subtilis</i> by the Aid of a Secretion Vector," <i>Journal of Bacteriology</i> , 162(1):176-182, American Society for Microbiology (1985).
	<b>BP</b>	van Zyl et al., "Inactivation of the Protein Phosphatase 2A Regulatory Subunit A Results in Morphological and Transcriptional Defects in <i>Saccharomyces cerevisiae</i> ," <i>Mol. and Cell. Bio.</i> 12 (11): 4946-4959, American Society for Microbiology (1992).
	<b>BQ</b>	Ward et al., "Construction and Characterisation of a Series of Multi-Copy Promoter-Probe Plasmid Vectors for <i>Streptomyces</i> using the Aminoglycoside Phosphotransferase Gene from Tn5 as Indicator," <i>Mol. Gen. Genet.</i> , 203:468-478, Springer-Verlag (1986).
	<b>BR</b>	Whyte et al., "Molecular Cloning of Chromosome I DNA from <i>Saccharomyces cerevisiae</i> : Isolation, Characterization and Regulation of the SP07 Sporulation Gene," <i>Gene</i> . 95: 65-72, Elsevier (1990).

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BS

Zapata et al., "Engineering Linear F(ab')<sub>2</sub> Fragments for Efficient Production in *Escherichia coli* and Enhanced Antiproliferative Activity," *Protein Engineering*, 8(10):1057-1062, Oxford University Press (1995).

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Form 1449

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